

GUVI Assignment: Car Rental System

By Prashant

Here are sample inputs for testing the Car and User APIs:

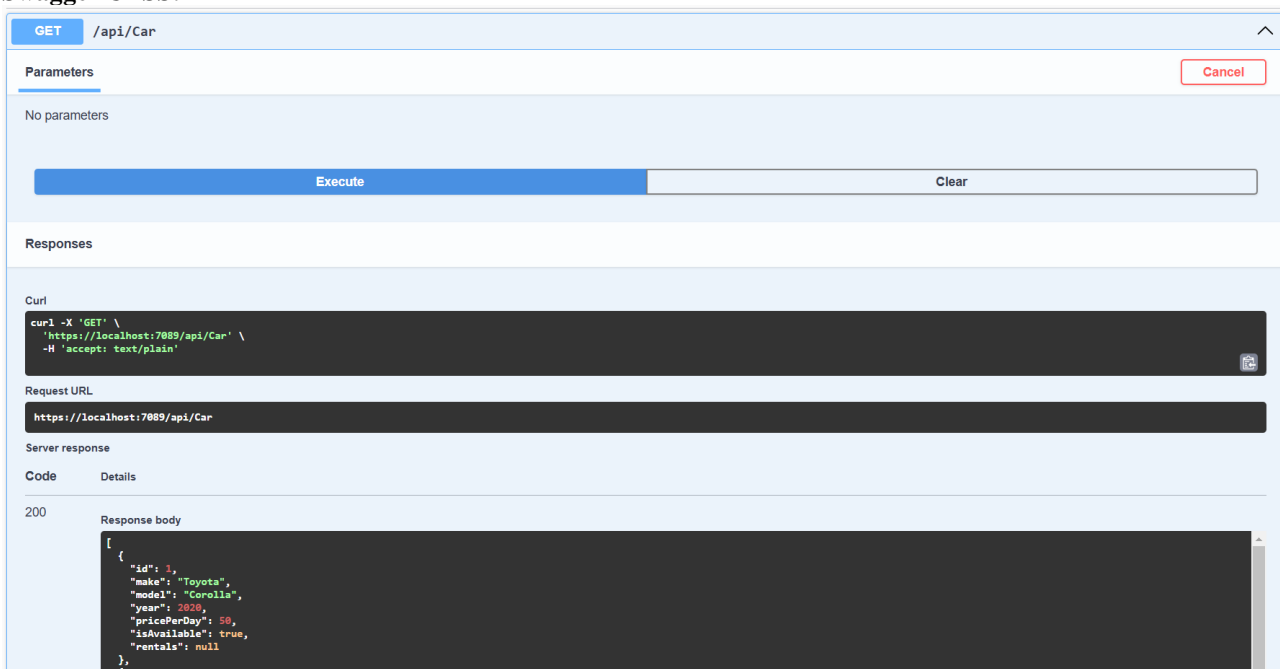
Car API

1. GET /api/car: <https://localhost:7089/api/Car>

- **Purpose:** Fetch all available cars.
- **Sample Input:** No input required.
- **Expected Output:**

```
[
  {
    "id": 1,
    "make": "Toyota",
    "model": "Corolla",
    "year": 2020,
    "pricePerDay": 50,
    "isAvailable": true
  },
  {
    "id": 2,
    "make": "Ford",
    "model": "Focus",
    "year": 2019,
    "pricePerDay": 45,
    "isAvailable": true
  }
]
```

Swagger UI SS:

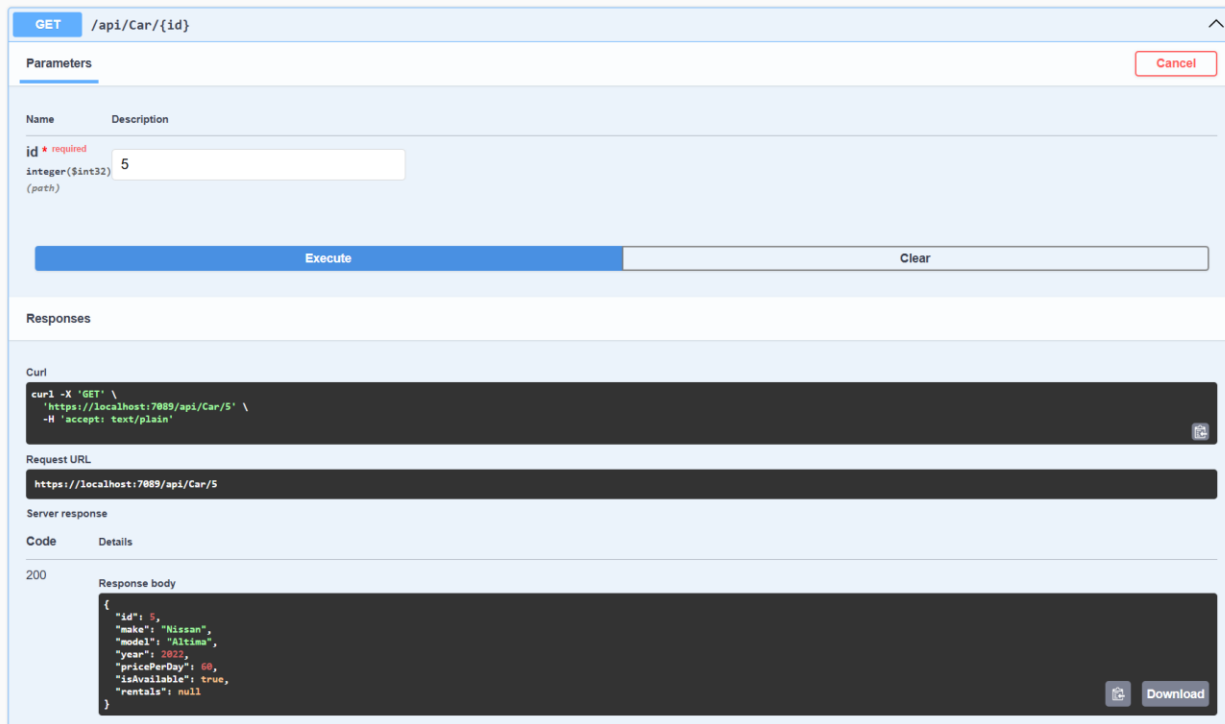


2. GET /api/car/{id}

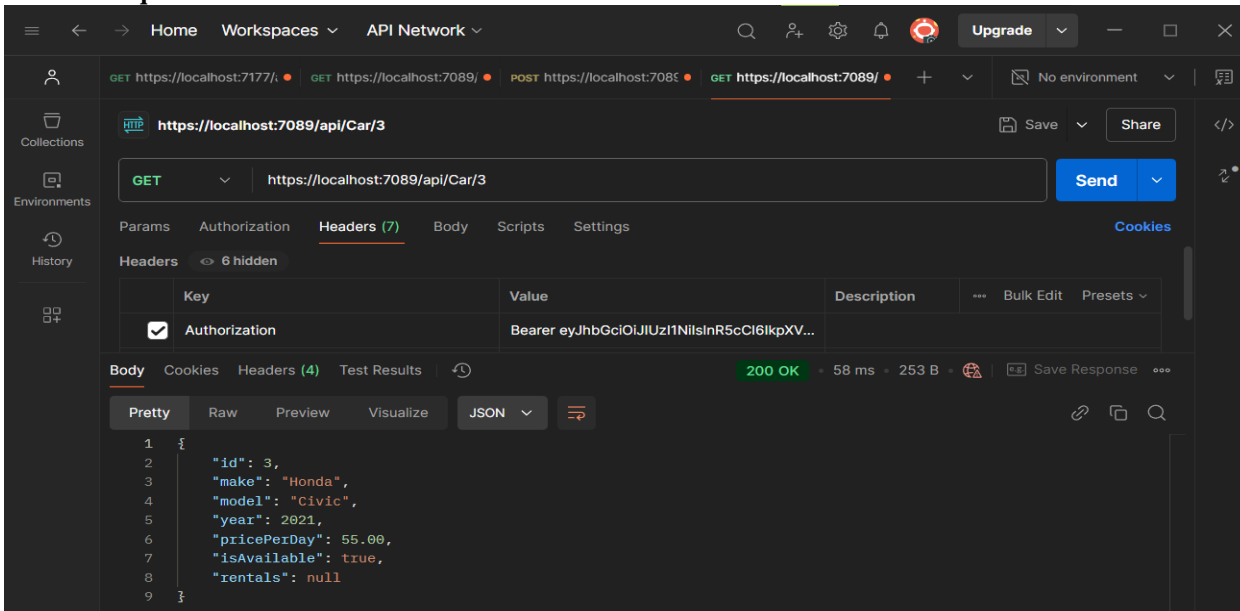
- **Purpose:** Fetch a specific car by ID.
- **Sample Input:** GET /api/car/5
- **Output:**

```
{
  "id": 1,
  "make": "Toyota",
  "model": "Corolla",
  "year": 2020,
  "pricePerDay": 50,
  "isAvailable": true
}
```

Swagger UI SS: <https://localhost:7089/api/Car/5>



Postman request:



3. POST /api/car

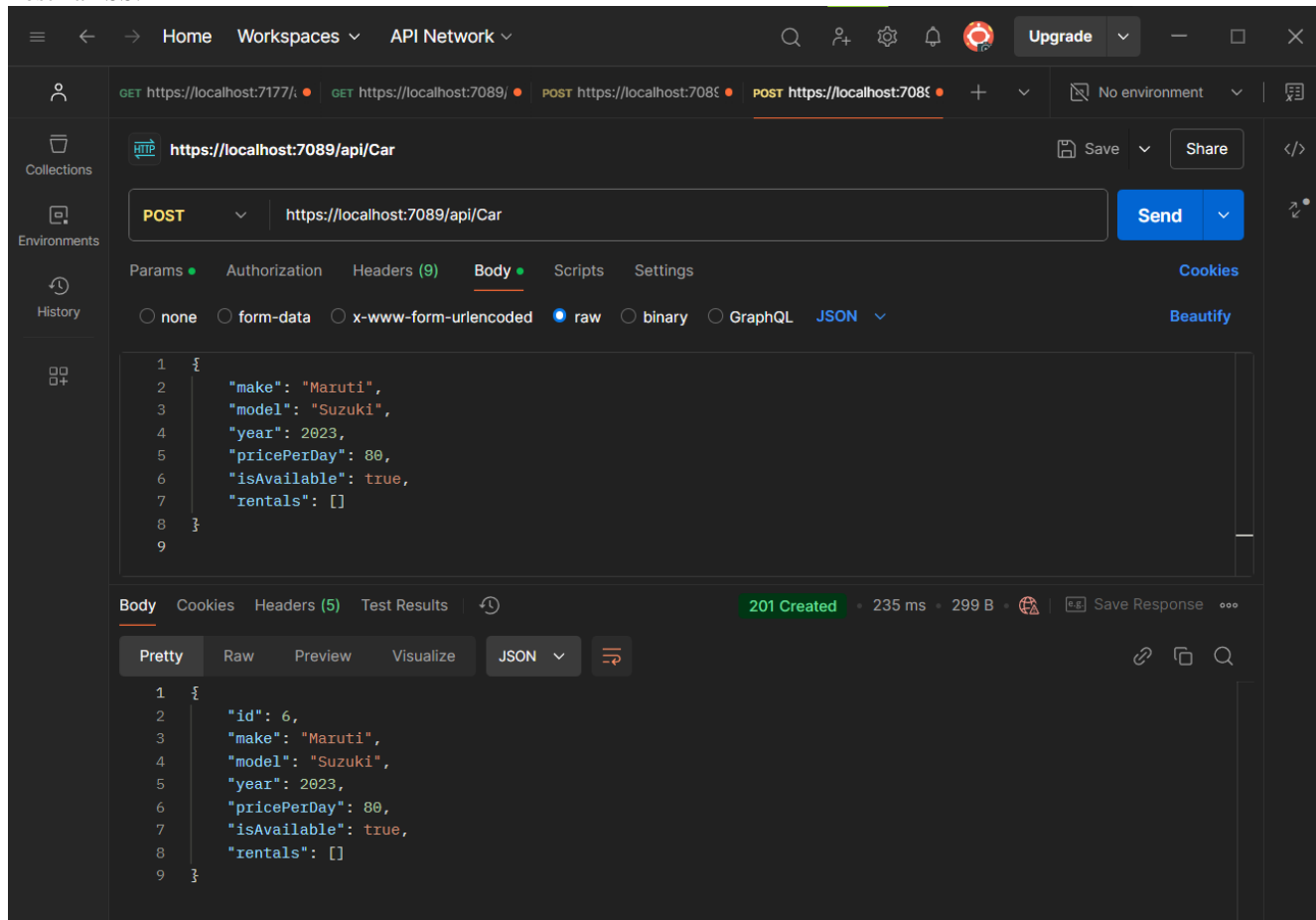
- **Purpose:** Add a new car (Admin-only endpoint).
- **Sample Input:**

```
{
  "make": "Maruti",
  "model": "Suzuki",
  "year": 2023,
  "pricePerDay": 80,
  "isAvailable": true,
  "rentals": []
}
```

- **Output:**

```
{
  "id": 6,
  "make": "Maruti",
  "model": "Suzuki",
  "year": 2023,
  "pricePerDay": 80,
  "isAvailable": true,
  "rentals": []
}
```

Postman SS:



4. PUT /api/car/{id}

- **Purpose:** Update a car's details (Admin-only endpoint).
- **Sample Input:** PUT /api/car/1

```
{
  "id": 1,
  "make": "Toyota",
  "model": "Corolla",
  "year": 2021,
  "pricePerDay": 55,
  "isAvailable": true
  "rentals": []
}
```

- **Output:** 204 No Content

SSMS before update:

Results		Messages				
	Id	Make	Model	Year	PricePerDay	IsAvailable
1	1	Toyota	Corolla	2020	50.00	0
2	2	Ford	Focus	2019	45.00	1
3	3	Honda	Civic	2021	55.00	1
4	4	Chevrolet	Malibu	2018	40.00	1
5	6	Maruti	Suzuki	2023	80.00	1

Updating year and rate in Postman with Admin token:

The screenshot shows the Postman interface for a PUT request to `https://localhost:7089/api/Car/1`. The request body is a JSON object with the following fields: `"id": 1`, `"make": "Toyota"`, `"model": "Corolla"`, `"year": 2021`, `"pricePerDay": 55`, `"isAvailable": true`, and `"rentals": []`. The response is `204 No Content` with a status of `183 ms` and `81 B`. The response is displayed in the `Body` tab, which is currently set to `Text` format.

After updating:

Results		Messages				
	Id	Make	Model	Year	PricePerDay	IsAvailable
1	1	Toyota	Corolla	2021	55.00	1
2	2	Ford	Focus	2019	45.00	1
3	3	Honda	Civic	2021	55.00	1
4	4	Chevrolet	Malibu	2018	40.00	1
5	6	Maruti	Suzuki	2023	80.00	1

5. DELETE /api/car/{id}

- **Purpose:** Delete a car (Admin-only endpoint).
- **Sample Input:** DELETE /api/car/5
- **Output:** (using admin login token)

The screenshot shows the Postman interface for a DELETE request. The URL is `https://localhost:7089/api/Car/5`. The method is set to **DELETE**. The **Headers** tab is active, showing an **Authorization** header with the value `Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6I...`. The **Test Results** tab shows a **204 No Content** response, indicating the car was successfully deleted. The response headers include **Date** (Tue, 26 Nov 2024 05:23:57 GMT) and **Server** (Kestrel).

6. POST /api/car/rent

- **Purpose:** Rent a car (User endpoint).
- **Sample Input:**

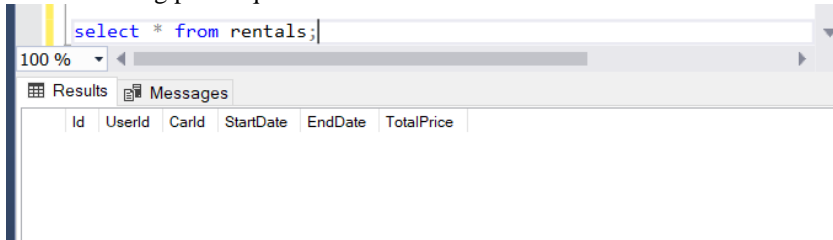
```
{
  "carId": 1,
  "startDate": "2024-11-25T00:00:00",
  "endDate": "2024-11-30T00:00:00"
}
```

With auth JWT token in the header

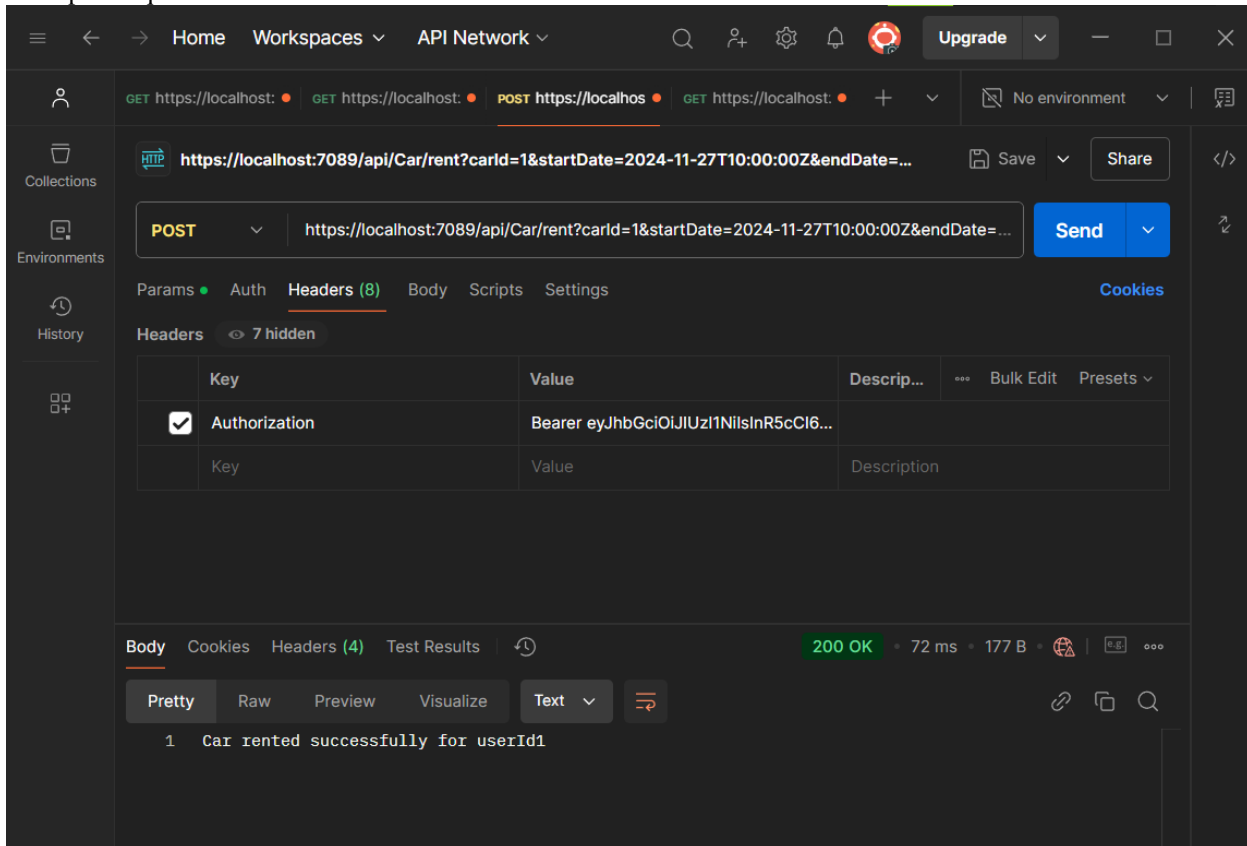
- **Output** (<https://localhost:7089/api/Car/rent?carId=1&startDate=2024-11-27T10:00:00Z&endDate=2024-11-30T10:00:00Z>):

"Car rented successfully for userId 1"

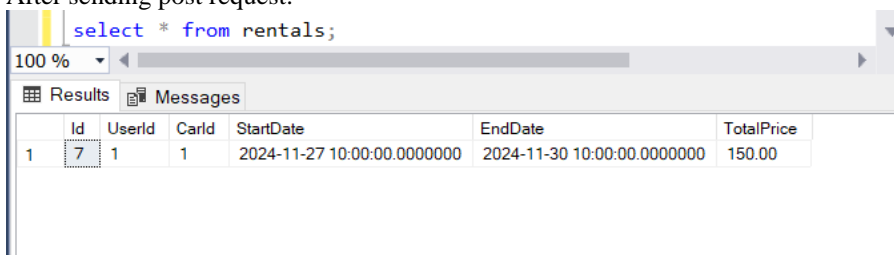
Before sending post request:



After post request

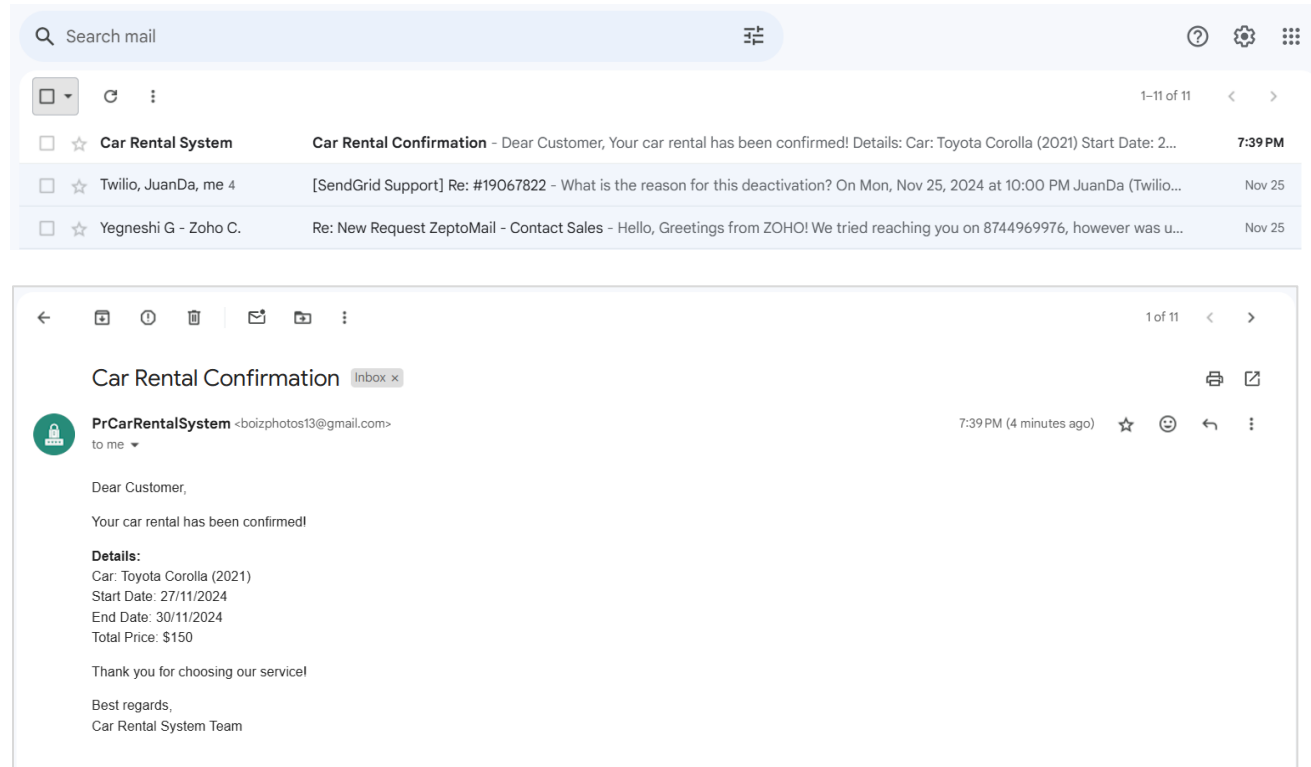


After sending post request:



Email sent using GSMTTP:

Email sent successfully: 250 2.0.0 OK 1732630194 d9443c01a7336-2129dbf9791sm84769175ad.145 – gsmttp



User API

1. POST /api/user/register

- **Purpose:** Register a new user.
- **User role Input:**

```
{
  "name": "Prashant",
  "email": "piru7399@gmail.com",
  "password": "Password123!",
  "role": "User",
  "rentals": []
}

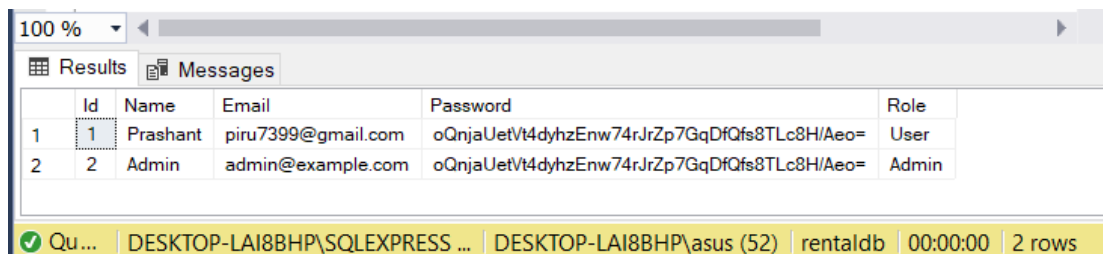
{
  "name": "Admin",
  "email": "admin@example.com",
  "password": "Password123!",
  "role": "Admin",
  "rentals": []
}
```

- **Output:**

```
{
  "id": 1,
  "name": "Prashant",
  "email": "piru7399@gmail.com",
  "password": "oQnjaUetVt4dyhzEnw74rJrZp7GqDfQfs8TLc8H/Aeo=",
  "role": "User",
  "rentals": []
}
```

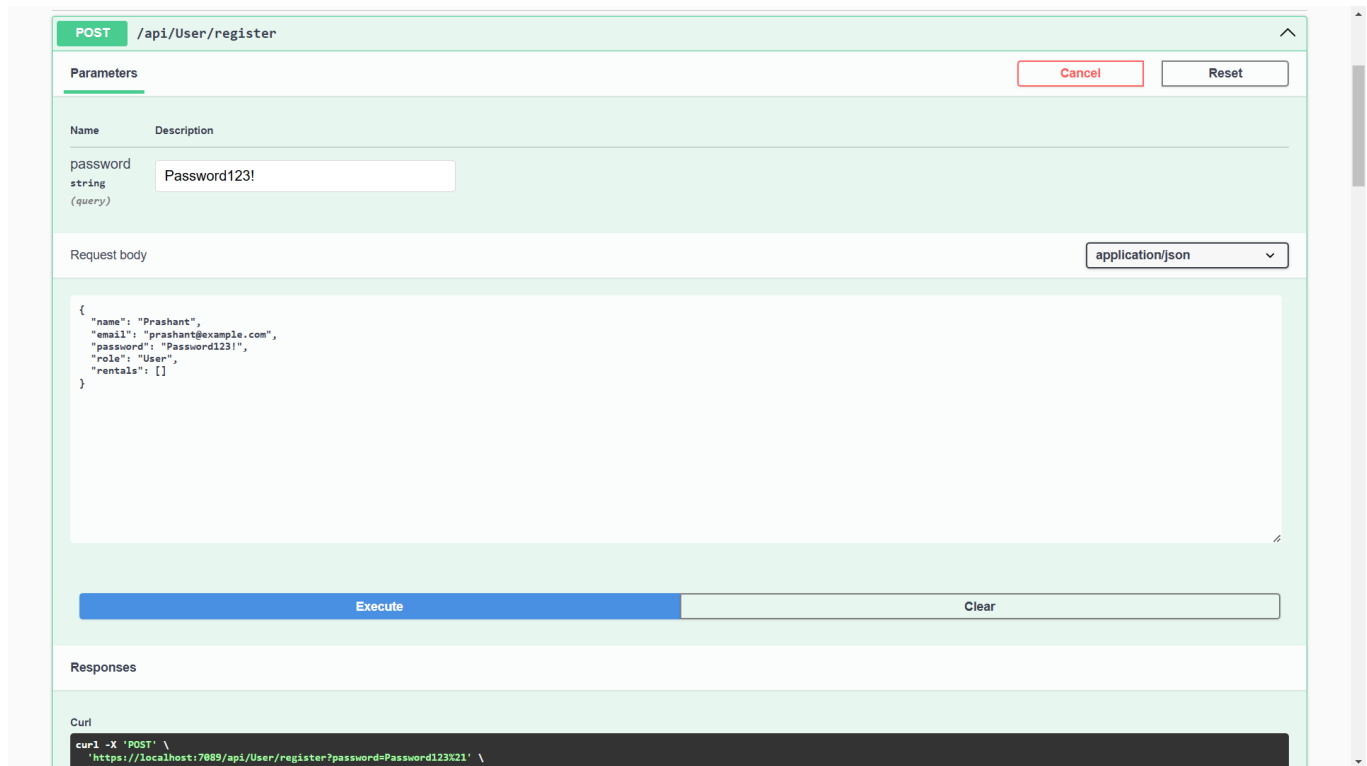
```
{
  "id": 2,
  "name": "Admin",
  "email": "admin@example.com",
  "password": "oQnjaUetVt4dyhzEnw74rJrZp7GqDfQfs8TLc8H/Aeo=",
  "role": "Admin",
  "rentals": []
}
```

SSMS:



	Id	Name	Email	Password	Role
1	1	Prashant	piru7399@gmail.com	oQnjaUetVt4dyhzEnw74rJrZp7GqDfQfs8TLc8H/Aeo=	User
2	2	Admin	admin@example.com	oQnjaUetVt4dyhzEnw74rJrZp7GqDfQfs8TLc8H/Aeo=	Admin

Qu... | DESKTOP-LAI8BHP\SQLEXPRESS ... | DESKTOP-LAI8BHP\asus (52) | rentaldb | 00:00:00 | 2 rows



POST /api/User/register

Parameters

Name	Description
password	string (query)

Request body: application/json

```
{
  "name": "Prashant",
  "email": "prashant@example.com",
  "password": "Password123!",
  "role": "User",
  "rentals": []
}
```

Execute **Clear**

Responses

Curl

```
curl -X 'POST' \
  https://localhost:7089/api/User/register?password=Password123X21 \
  -H 'Content-Type: application/json'
```


Request URL		https://localhost:7009/api/User/register?password=Password123x21
Server response		
Code	Details	
201	Response body	<pre>{ "id": 1, "name": "Prashant", "email": "prashant@example.com", "password": "Qh9jaUetV4dyh5fmu74r3r2p7GqQfQfs8TLcB4/Aeo=", "role": "User", "rentals": [] }</pre> <div> Download</div>
	Response headers	<pre>content-type: application/json; charset=utf-8 date: Mon, 25 Nov 2024 17:48:41 GMT location: https://localhost:7009/api/User/1 server: Kestrel</pre>
Responses		
Code	Description	Links
200	OK	No links

- **Purpose:** Log in a user.
- **Input:**

- **Output:**

The screenshot shows a REST client interface with the following details:

- URL:** `https://localhost:7089/api/User/1`
- Method:** `GET`
- Headers (8):**

Key	Value
Authorization	Bearer eyJhbGciOiJIUzI1NiIsIn...
- Body:** `200 OK` (314 ms, 292 B)
- Response (JSON):**

```
{
  "id": 1,
  "name": "Prashant",
  "email": "prashant@example.com",
  "password": "oQnjaUetVt4dyhzEnw74rJrZp7GqDfQfs8TLc8H/Aeo=",
  "role": "User",
  "rentals": null
}
```

4. GET /api/user/rentals

- **Purpose:** Get all rentals for the logged-in user.
- **Input:** No input required (using JWT token for user identification).
- **Output** for `https://localhost:7089/api/User/rentals`

Home

Workspaces

API Network

GET https://localhost

GET https://localhost

POST https://localhost

POST https://localhost

GET https://localhost

+

No environment

https://localhost:7089/api/User/rentals

Save

Share

GET

https://localhost:7089/api/User/rentals

Send

Params

Authorization

Headers (7)

Body

Scripts

Settings

Cookies

Headers

6 hidden

	Key	Value	Description	Bulk Edit	Presets
<input checked="" type="checkbox"/>	Authorization	Bearer eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXV...			

Body

Cookies

Headers (4)

Test Results

200 OK

6.82 s

466 B

Save Response

Pretty

Raw

Preview

Visualize

JSON

```
1  {
2    "$id": "1",
3    "$values": [
4      {
5        "$id": "2",
6        "id": 7,
7        "userId": 1,
8        "carId": 1,
9        "startDate": "2024-11-27T10:00:00",
10       "endDate": "2024-11-30T10:00:00",
11       "totalPrice": 150.00,
12       "user": null,
13       "car": {
14         "$id": "3",
15         "id": 1,
16         "make": "Toyota",
17         "model": "Corolla",
18         "year": 2021,
19         "pricePerDay": 55.00,
20         "isAvailable": true,
21         "rentals": {
22           "$id": "4",
```